

Service Manual

Auto Washer

Model : DWD-FD1022



• Caution:

In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center (<http://svc.dwe.co.kr>).



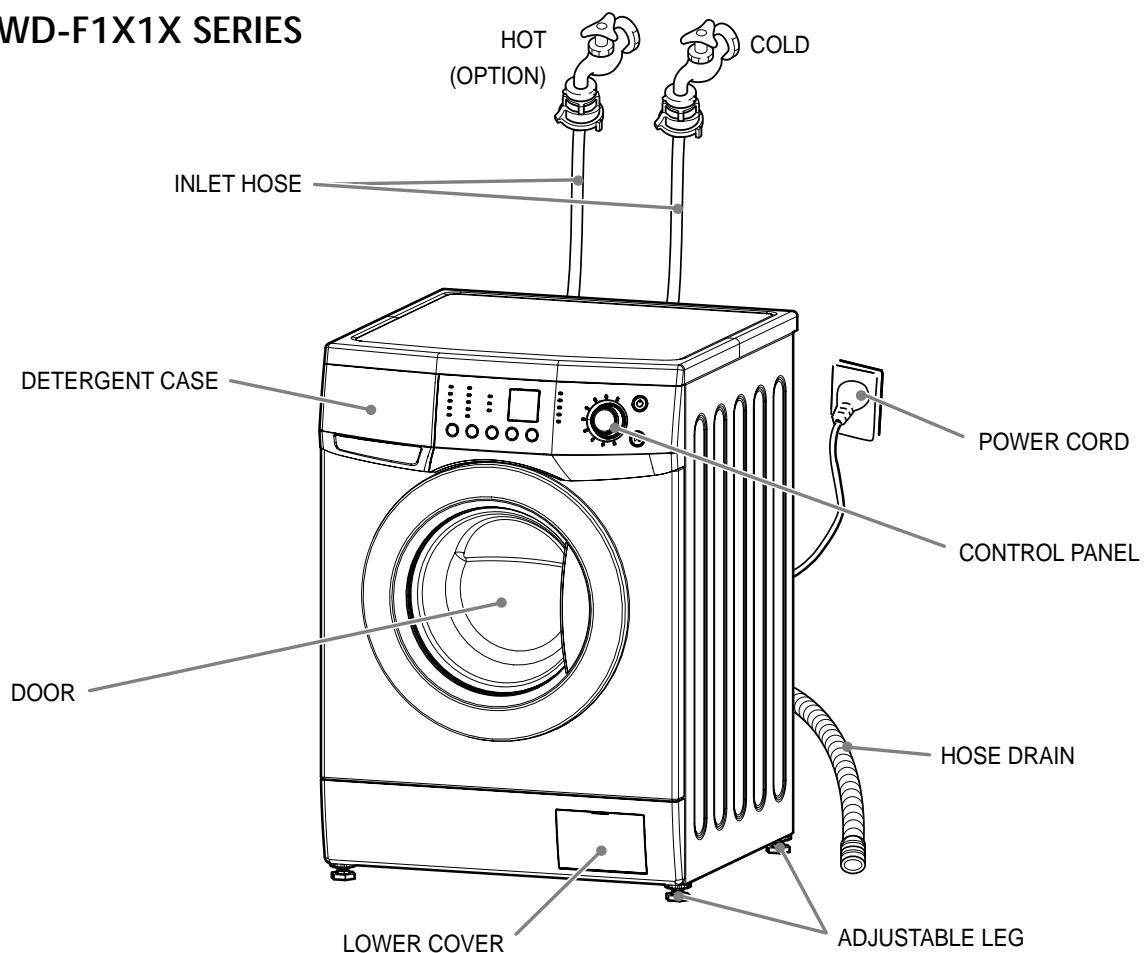
WASHING MACHINE

Contents

| | |
|--|-----------|
| 1. SPECIFICATIONS..... | 2 |
| 2. INSTALLATION..... | 3 |
| Removing transit bolts..... | 3 |
| Installation place requirement..... | 4 |
| BS Plug Safety Details (For U.K. User)..... | 4 |
| Connecting inlet hose | 5 |
| Installation of drain hose | 6 |
| Level adjustment..... | 7 |
| 3. MAINTENANCE | 8 |
| Cleaning your washer | 8 |
| Cold condition..... | 8 |
| Cleaning the water inlet filter..... | 9 |
| Cleaning the drain pump filter..... | 9 |
| Cleaning the detergent case..... | 10 |
| Cleaning the washing drum..... | 10 |
| 4. DIRECTION FOR DISASSEMBLY | 11 |
| 5. EXPLODE VIEW AND PARTS LIST | 14 |
| 6. FUNCTIONS OF THE CONTROL PANEL..... | 22 |
| 7. FUNCTIONS OF THE CONTROLLER..... | 24 |
| 8. FUNCTION OF THE CONVENIENT SERVICE..... | 26 |
| 9. TROUBLESHOOTING GUIDE | 27 |
| 10. WIRING DIAGRAM..... | 31 |

1. SPECIFICATIONS

■ DWD-F1X1X SERIES



| MODEL | DWD-FD1411 / 1412 |
|----------------------------|--|
| POWER SOURCE | 220-240V, 50/60Hz |
| DIIMENSION (WXDXH) | 595mm x 540mm x 850mm |
| WEIGHT | 58 kg |
| WATER CONSUMPTION | 56.1ℓ |
| POWER CONSUMPTION | 2200W |
| MAXIMUM MASS OF TEXTILE | WASH 7 kg SPIN 7 kg |
| WASHER TYPE | DRUM TYPE (FRONT LOADING WASHING MACHINE) |
| OPERATING WATER PRESSURE | 0.3 ~ 8kgf/cm ² (29.4 ~ 784kPa) |

■ Accessories

| Hose drain | Inlet hose | Manual | Cap holder(3EA) |
|------------|------------|--------|-----------------|
| | | | |

2. INSTALLATION

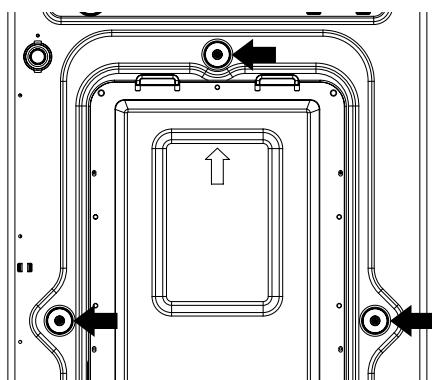
■ Transit bolts

The appliance is fitted with transit bolts to prevent internal damage during transport.

■ Removing transit bolts

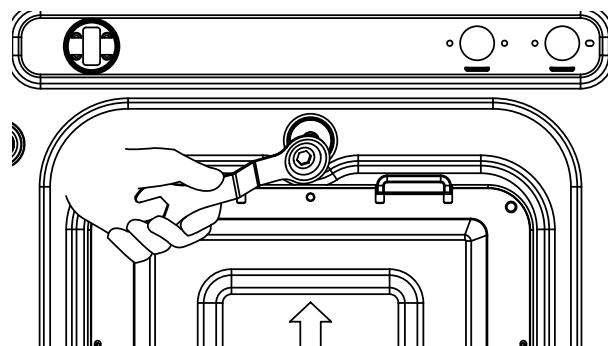
1. To prevent internal damage during transport, the special 3 bolts are locked. Before operating the washer, remove the bolts along with the rubber bungs.

- If they are not removed, it may cause heavy vibration, noise and malfunction.

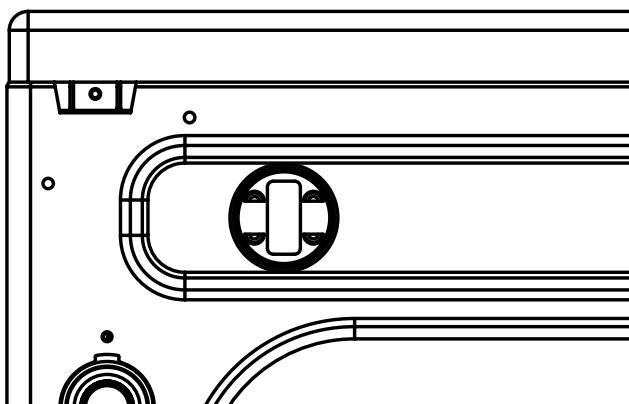


2. Unscrew the 3 bolts with the 10mm hex wrench or spanner or cross-tip screwdriver. Keep the 3 bolts for a later time.

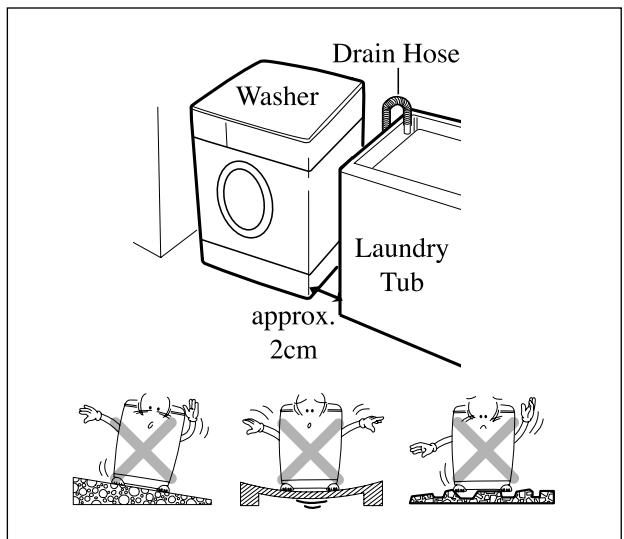
- When the appliance is transported, transit bolts will be re-used.



3. Close the holes with the caps supplied.



■ Installation place requirement



Level floor :

Allowable slope under entire washer is 1°

Power outlet :

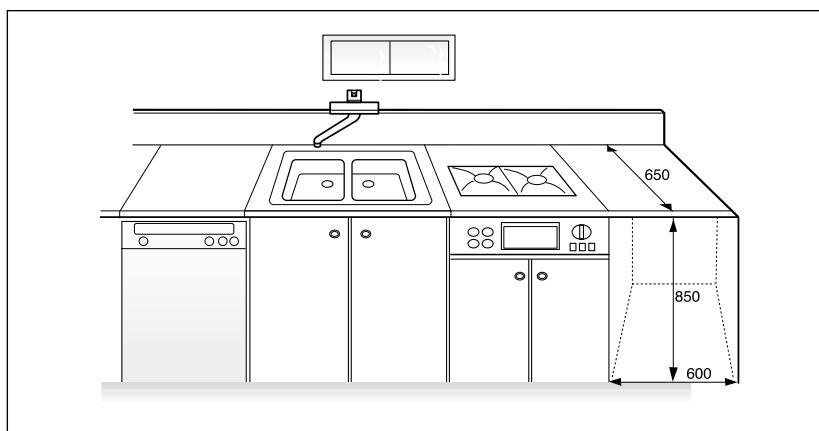
Must be with 1,5 meters of entire side of location of washer. Do not overload the outlet with more than one appliance.

Additional Clearance :

For wall, door and floor modeling is required.
(10cm : rear / 2cm : right & left side)

Do not place or store laundry products on top of washer at any times.

They can damage the finish or controls.



■ BS Plug Safety Details (For U.K. User)

IMPORTANT

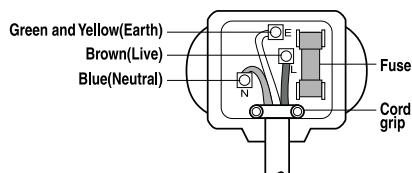
THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

GREEN AND YELLOW : EARTH

BLUE : NEUTRAL

BROWN : LIVE

This appliance must be earthed



As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Green and Yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol \ominus or coloured Green or Green and Yellow.

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter N or coloured Red.

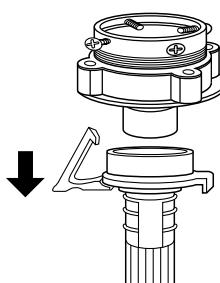
If a 13 amp (BS 1363) plug is used, fit a 13amp BS 1362 fuse.

■ Connecting inlet hose

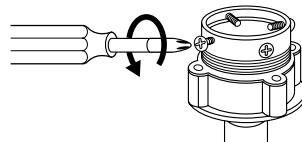
In using only one water tap or in case of only one water inlet valve, connect the inlet hose to the cold water inlet valve.
Option : Be careful not to confuse hot water inlet and cold water inlet.

•••• FOR ORDINARY TAP

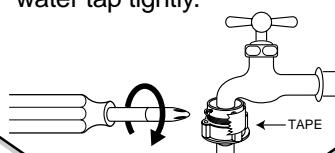
- ① Pull down the collar of the inlet hose to separate it from the water tap adapter.



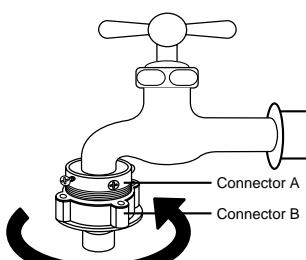
- ② Loosen the four screws properly in order to fit into water tap.



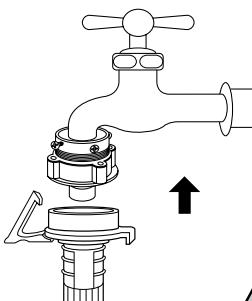
- ③ Fit the water tap adapter into the water tap and tighten the four screws evenly while pushing up the adapter so that the rubber packing can stick to the water tap tightly.



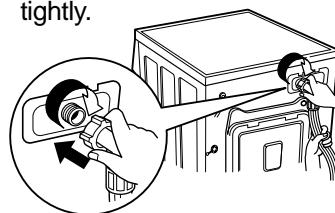
- ④ Remove the tape, and screw connector B into connect A tightly.



- ⑤ Connect the inlet hose to the water tap adapter by pulling down the collar of the hose end.



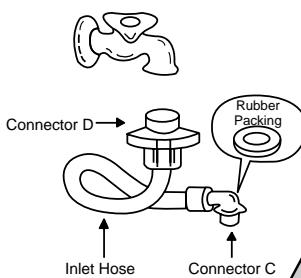
- ⑥ Connect the inlet hose adapter of the hose to the water inlet of the washer by turning it clockwise to be fixed tightly.



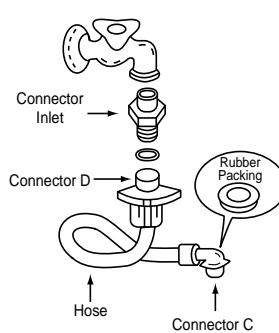
- Please check the rubber packing present inside the inlet hose adapter of the hose.

•••• FOR SCREW-SHAPED TAP

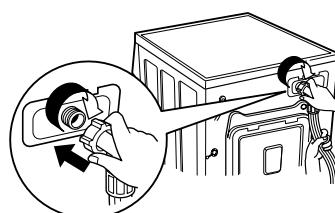
- ① Connect the inlet hose to the water tap adapter by pulling down the collar of the hose end.



- ② Connect the connector-inlet supplied if necessary.

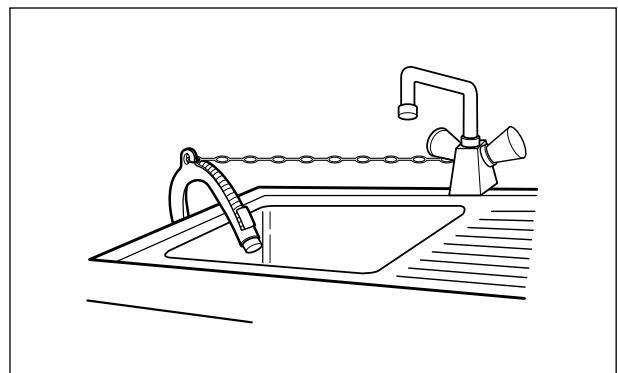
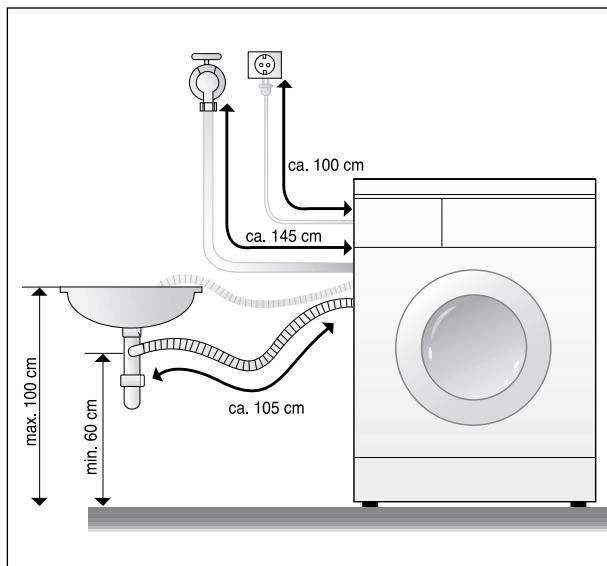


- ③ Connect the inlet hose adapter to the water inlet of the washer and turn it to be fixed.

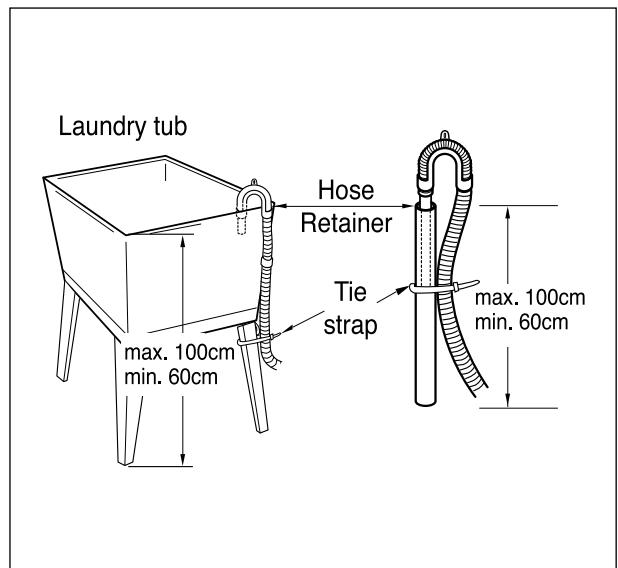
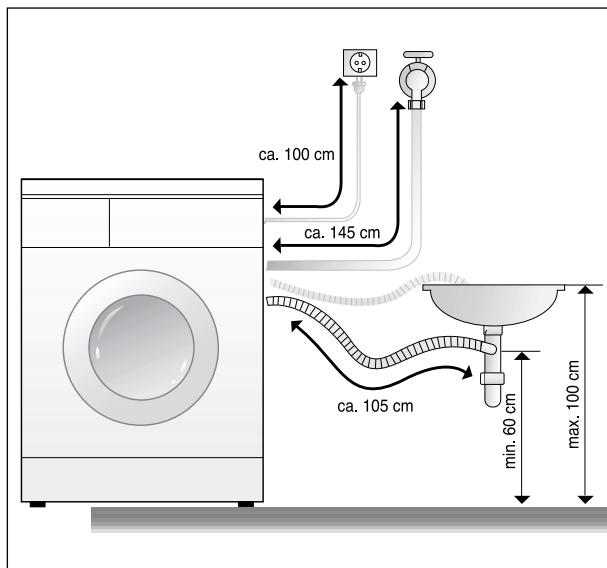


- Check the packing in the inlet.

■ Installation of drain hose

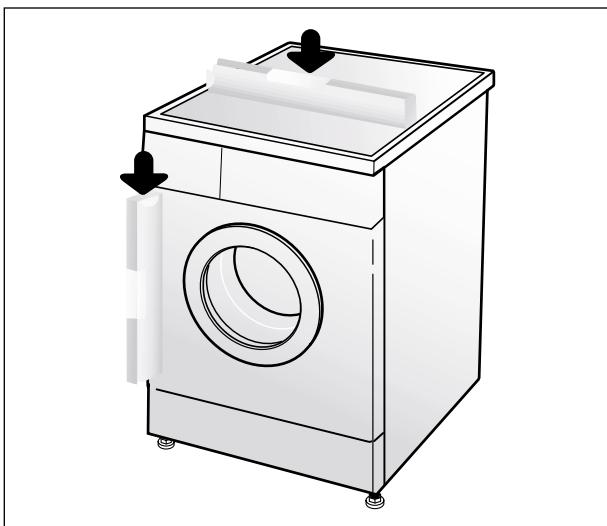


- When installing the drain hose in sink, secure it tightly with a string.
- Proper securing of the drain hose will **protect the floor from damage due to water leakage**.



- The drain hose should not be placed **higher than 100cm above the floor**.
- Proper securing of the drain hose will **protect the floor from damage due to water leakage**.
- When the drain hose is too long, do **not force back in to the washer. This will cause abnormal noise**.

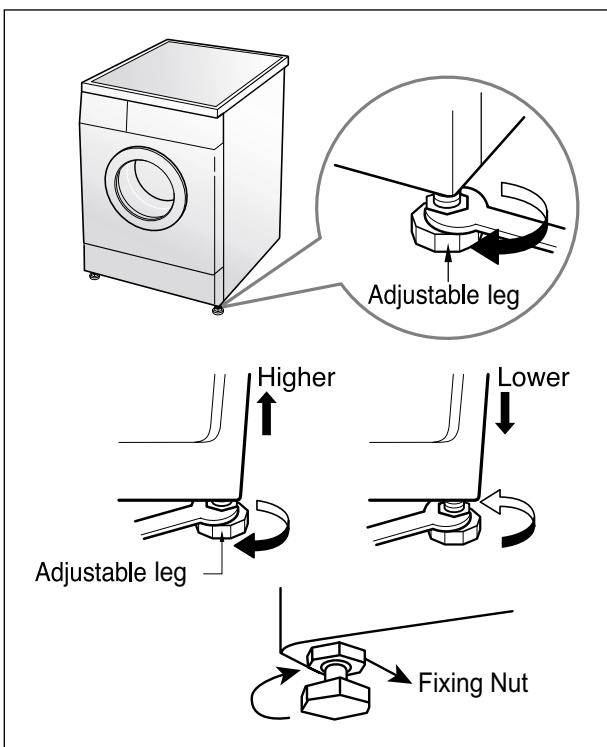
■ Level adjustment



1. The level adjustment of the washing machine prevents excessive noise and vibration.

Install the washing machine on a solid and even floor surface, if possible, in a corner of the room.

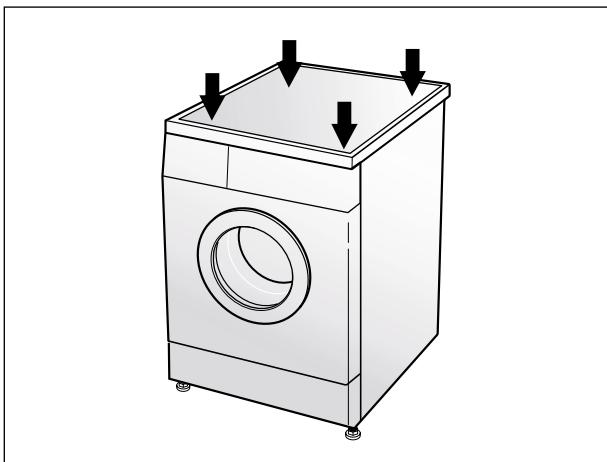
Note: the wooden floor may cause excessive vibration.



2. If the floor is uneven, adjust the adjustable leg as the following.

(Do not insert pieces of wood etc. under legs.)

- Please check whether there is any gap between four adjustable legs and the floor.
- Turn adjustable legs by the enclosed spanner in order to adjust the level of the washing machine.
- Make it sure that there is no swaying of the washing machine and check that the washing machine is even completely. (use a spirit level)
- After the level adjustment is finished, turn fixing nuts up tightly so that the washing machine maintains the adjustment.



※ Diagonal Check

When pushing down the edges of the washing machine top plate diagonally, the machine should not move up and down at all.

(Please, check both of two directions)

If machine rocks when pushing the machine top plate diagonally, adjust legs again.

3. MAINTENANCE

※ Before cleaning the washer interior, unplug the electrical power cord avoid electrical shock hazards.

■ Cleaning your washer

1. Exterior

Proper care of your washer can extend its life.

The outside of the machine can be cleaned with warm water and a neutral non abrasive household detergent.

Immediately wipe off any spills. Wipe with damp cloth.

Try not to hit surface with sharp objects.

- Do not use methylated spirits, diluents or similar products.

2. Interior

Dry around the washer door opening, flexible gasket and door glass.

Run washer through a complete cycle using hot water.

Repeat process if necessary.

- Remove hard water deposits using only cleaners labeled as washer safe.

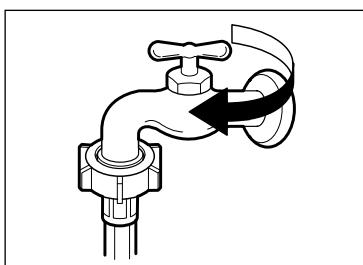
■ Cold condition

If the washer is stored in an area where freezing may occur or moved in freezing temperature, follow these instructions to prevent damage to the washer.

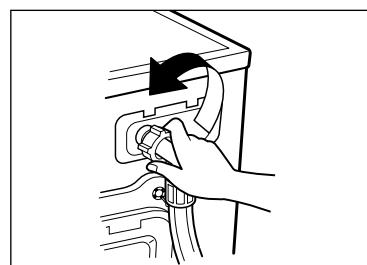
1. Turn off water supply tap.
2. Disconnect hoses from water supply and drain water from hoses.
3. Plug electrical cord into a properly grounded electrical outlet.
4. Add 1gallon(3.8L) of nontoxic recreational vehicle(RV) antifreeze into empty wash drum.
Close the door.
5. Set spin cycle and let washer spin for 1 minute to drain out all water.
6. Unplug electrical power cord, dry the drum interior, and close the door.
7. Remove detergent case and dry excessive water from the compartments.
8. Store washer in an upright position.
9. To remove antifreeze from washer after storage, run empty washer through a complete cycle using detergent. Do not add wash load.

■ Cleaning the water inlet filter

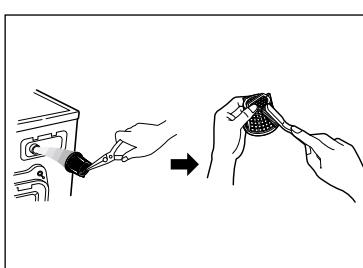
- "IE" error message will blink on the control panel when water does not enter the detergent drawer.
- If your water is very hard or contains traces of lime deposit, the water inlet filter may become clogged.
- It is therefore a good idea to clean it from time to time.



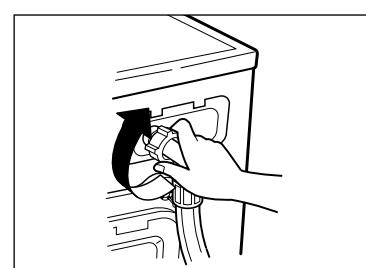
1. Turn off the water tap.



2. Unscrew the water inlet hose.



3. Clean the filter using a had bristle brush.



4. Tighten up the inlet hose.

■ Cleaning the drain pump filter

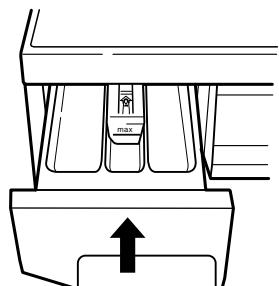
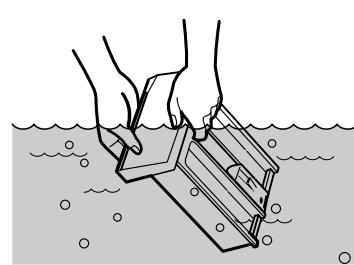
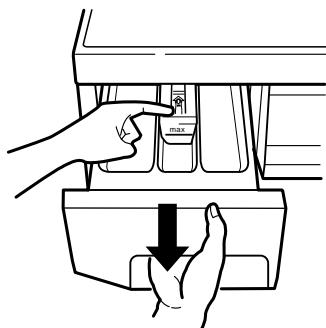
- The drain filter collects threads and small objects left in the laundry.
- Check regularly that the filter is clean to ensure smooth running of your machine.

CAUTION Be careful when draining if the water is hot.

| | | |
|---|---|--|
| 1. Open the lower cover(①) by using a coin. Turn the cap hose(②) to pull out the hose. Pull out the hose maximally. (About 13~14cm.) A diagram showing a hand using a coin to open a circular cover (①) at the bottom of a machine. A hose (②) is attached to the cover, and a hand is pulling it out. | 2. Unplug the cap hose(②), allowing the water to flow out. At this time use a vessel to prevent water flowing on to the floor. When water does not flow any more, turn the pump filter(③) open to the left. A diagram showing a hand unplugging a cap hose (②) from a pump filter (③). Water is shown flowing from the hose into a nearby vessel. The pump filter is shown being turned counter-clockwise. | 3. Remove any foreign material from the pump filter(③). After cleaning, turn the pump filter clockwise and insert the cap hose(②) to the original place. Close the lower cover. A diagram showing a hand cleaning the interior of a pump filter (③) with a cloth. After cleaning, the cap hose (②) is reattached and the lower cover is closed. |
|---|---|--|

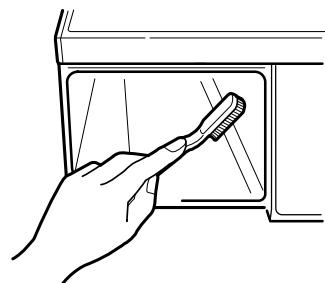
■ Cleaning the detergent case

- ✿ After a while detergents and fabric softeners leave a deposit in the detergent case.
- It should be cleaned from time to time with a jet of running water.
- If necessary it can be removed completely from the machine by pressing the catch downwards and by pulling it out.
- To facilitate cleaning, the upper part of the fabric softener compartment can be removed.



Inlet box recess

- ✿ Detergent can also accumulate inside the recess which should be cleaned occasionally with an old toothbrush.
- Once you have finished cleaning, replace the detergent case and run a rinse cycle without laundry.



■ Cleaning the washing drum

- If you live in a hard water area, limescale may continuously build up in places where it cannot be seen and thus not easily removed.
- Over time the build up of scale clogs appliances, and if it is not kept in check these may have to be replaced.
- Although the washing drum is made of stainless steel, specks of rust can be caused by small metal articles (paper clips, safety pins) which have been left in the drum.
- The washing drum should be cleaned from time to time.
- If you use descaling agents, dyes or bleaches, make sure they are suitable for washing machine use.
- ✿ Descaler may contain chemicals that may damage part of your washing machine.
- ✿ Remove any spots with a stainless steel cleaning agent.
- ✿ Never use steel wool.

4. DIRECTION FOR DISASSEMBLY

DOOR LOCK SWITCH

1) Open the door and remove the gaske clamp.



2) Remove the gasket from the front cabinet.



3) Remove two screws, and remove the door lock switch.



HEATER AND THERMISTOR

1) Remove five screws on the COVER B and separate the COVER B from washing machine.



2) Remove the connectors of the HEATER.



3) Remove the nut using the 10mm hex wrench and remove the earth terminal from the HEATER.



4) Loose the nut of the HEATER and pull out the HEATER.



BLDC MOTOR

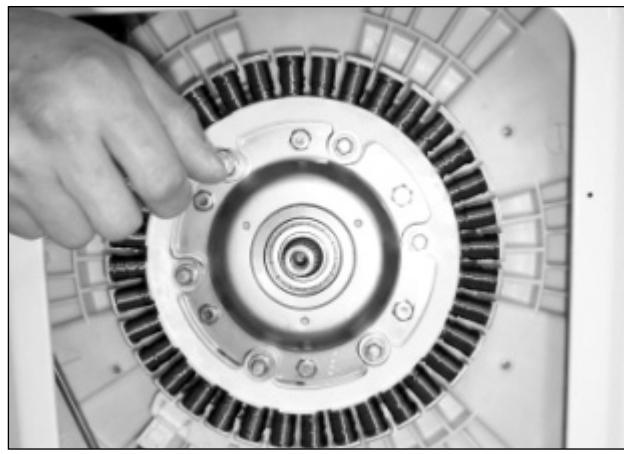
1) Remove the nut using the 17mm hex wrench.



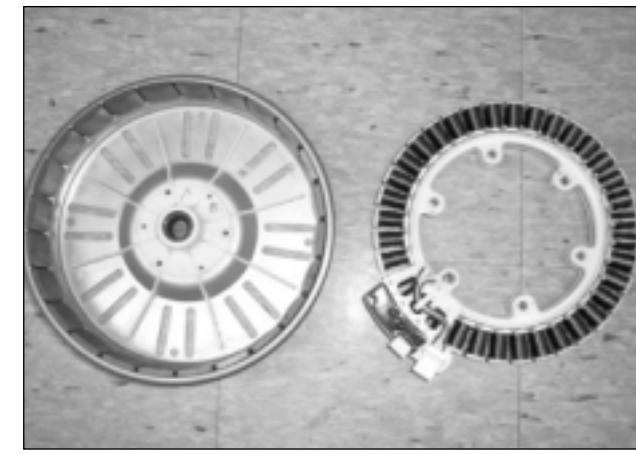
2) Pull out the ROTOR.



3) Remove six screws using the 10mm hex wrench and connectors from the STATOR.



4) Separate the STATOR from the TUB.



DRAIN PUMP

1) Lay the right side of the washer on the floor, and remove the lower panel by pressing six snap fits.



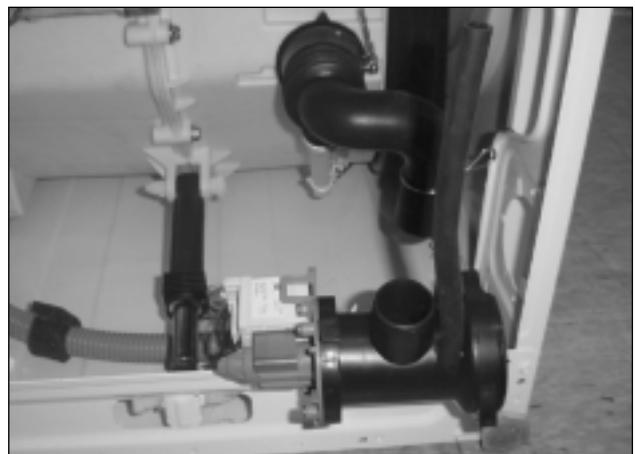
2) Remove connectors.



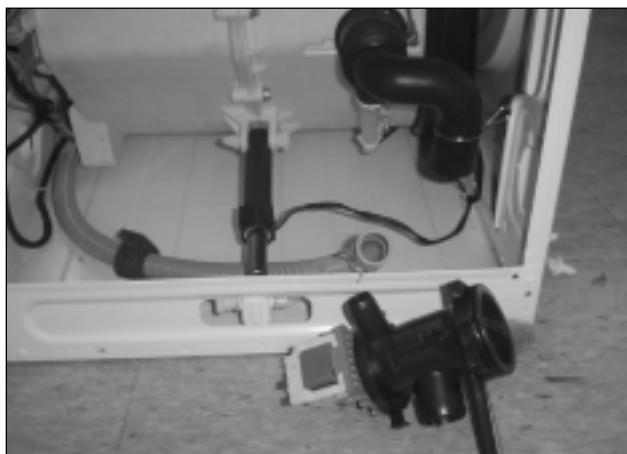
3) Remove the screw, and remove the drain pump from the lower frame.



4) Remove the drain hose.

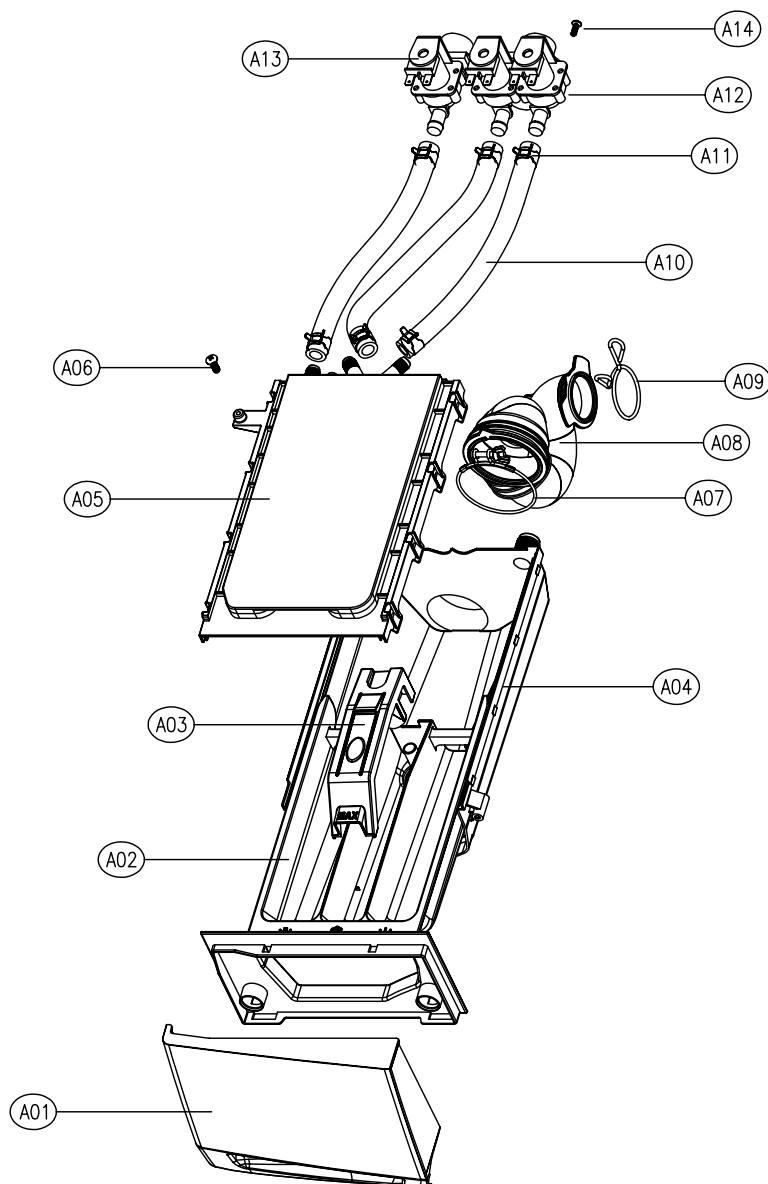


5) Remove the inner drain hose, and remove the drain pump.



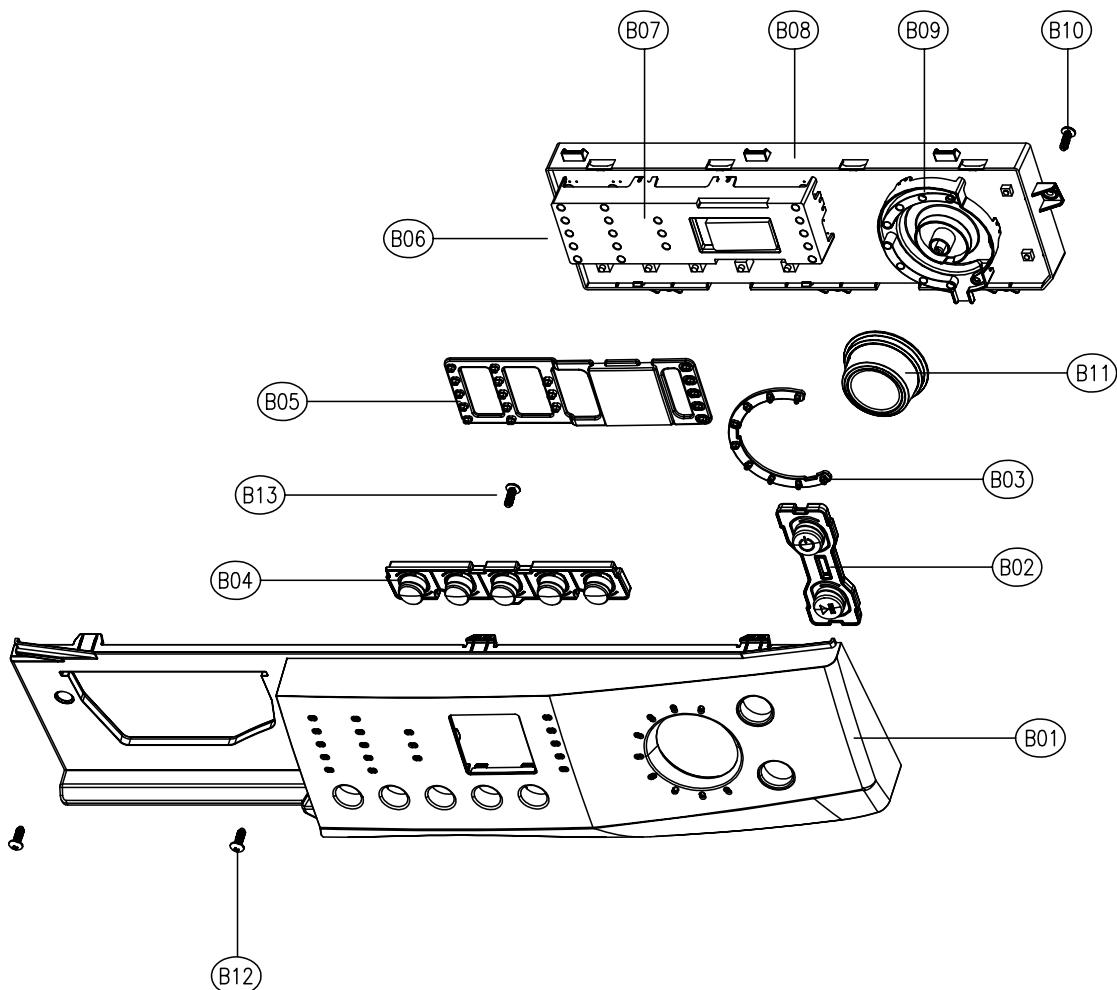
5. EXPLODE VIEW AND PARTS LIST

■ BOX INLET AS



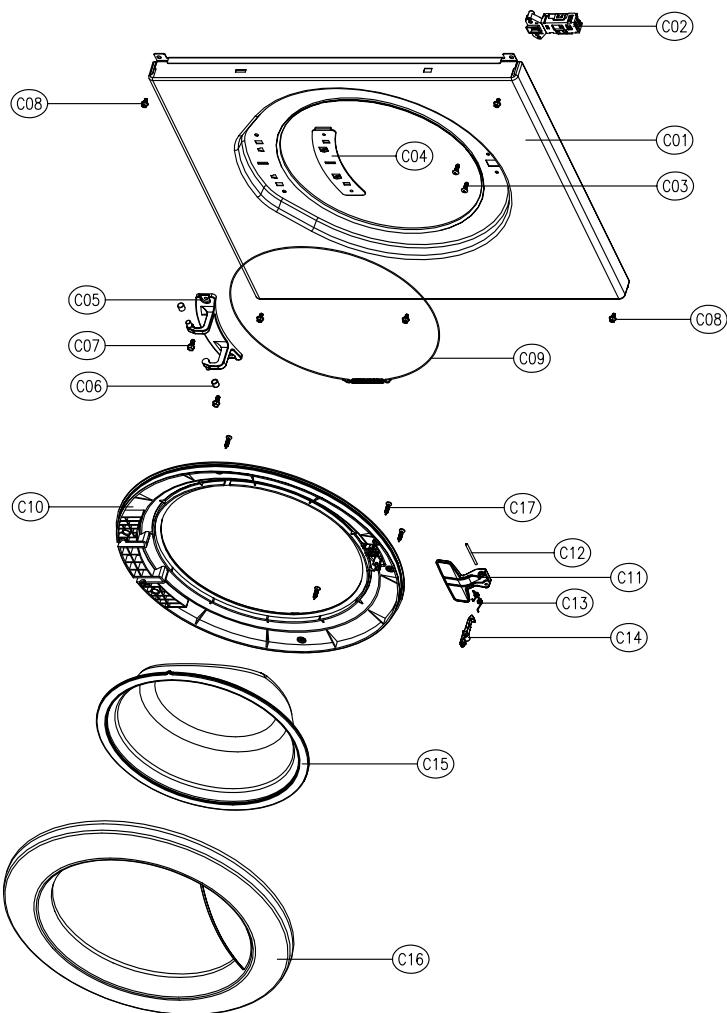
| No. | PART NAME | PART CODE | SPECIFICATION | Q'TY | REMARK |
|-----|-------------------|--------------------------|-------------------------------|--------|------------------|
| A01 | HANDLE CASE | 3612608900 | ABS,F1221N | 1 | |
| A02 | CASE DETERGENT | 3611140300 | PP | 1 | |
| A03 | CAP SOFTENER | 3610916600 | PP | 1 | |
| A04 | BOX INLET | 3610526500 | PP | 1 | |
| A05 | NOZZLE AS | 3618103510 3618103500 | NOZZLE TOP + NOZZLE UNDER | 1 1 | COLD COLD+HOT |
| A06 | SCREW TAPPING | 7122402011 | T2S TRS 4X20 MFZN | 1 | |
| A07 | CLAMP AS | 3611203200 | ID=60,WIRE+GUIDE+BOLT+NUT | 1 | |
| A08 | HOSE INLET | 3613267200 | EPDM U-TRAP | 1 | |
| A09 | CLAMP HOSE I | 3611201400 | HSW3, D2.6, MFZN, ID=38 | 1 | |
| A10 | HOSE WATER SUPPLY | 3613270900 | EPDM, ID=9.5, OD=14.5, L=225 | 2(3) | COLD(HOT) |
| A11 | CLAMP HOSE | 3611205800 | ID=13.8, W=10.0, T=0.9 | 4(6) | COLD(HOT) |
| A12 | VALVE INLET AS | 3615415800 | 100-130 2-WAY PP/BRACKET | 1 | COLD |
| A13 | VALVE INLET AS | 3615415700 | 2100-130 1-WAY HOT PP-BRACKET | 1 | HOT |
| A14 | SCREW TAPTITE | 7272400811 | TT3 TRS 4X8 MFZN | 2(4) | COLD(HOT) |

■ PANEL FRONT AS



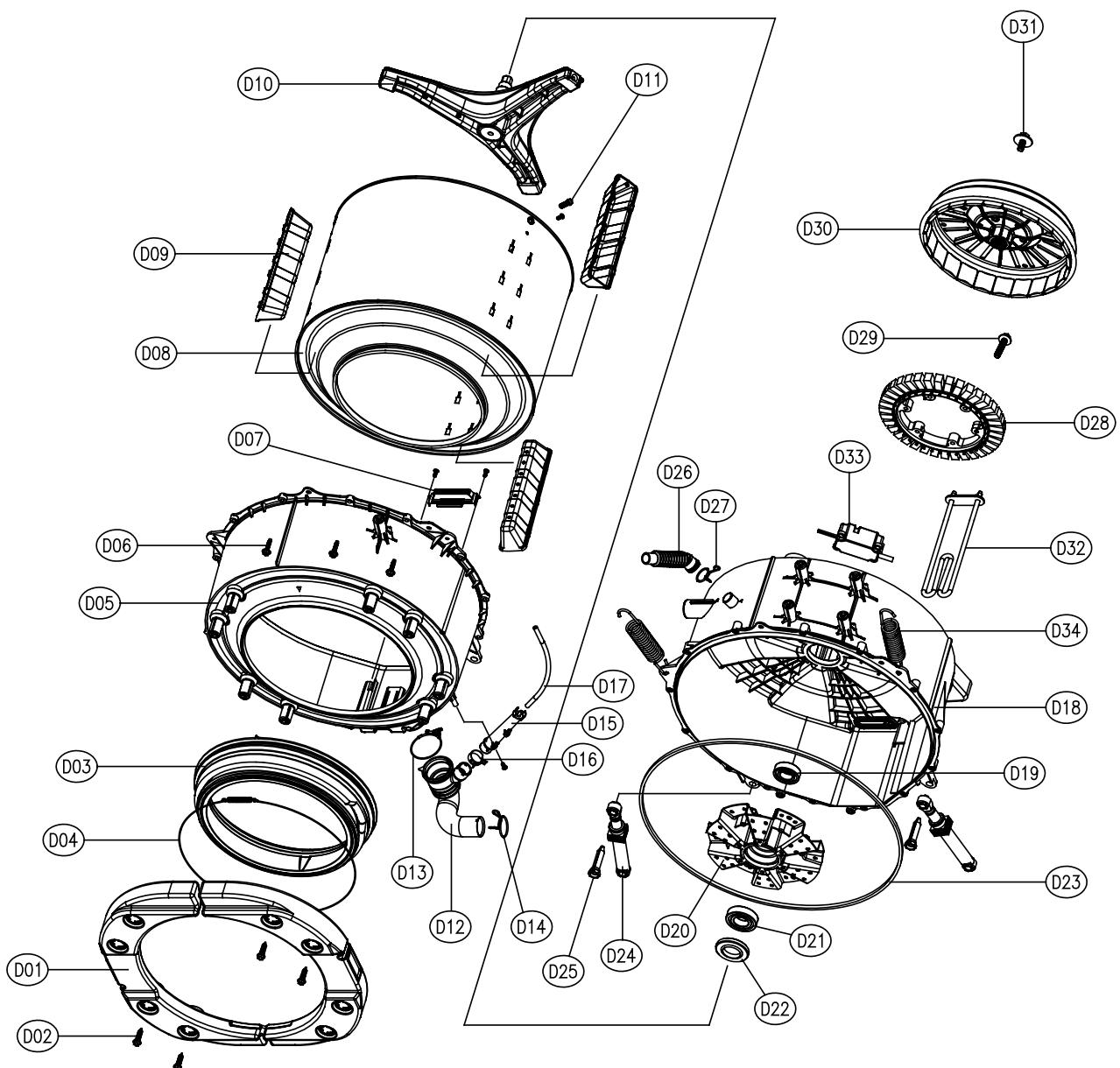
| No. | PART NAME | PART CODE | SPECIFICATION | Q'TY | REMARK |
|-----|-------------------|------------|------------------------------------|------|------------|
| B01 | PANEL F | 3614284500 | ABS | 1 | |
| B02 | BUTTON POWER | 3616603600 | ABS | 1 | DWD-FD1411 |
| | | 3616603620 | ABS + AL COATING | | DWD-FD1412 |
| B03 | WINDOW DIAL | 3615503100 | ABS-TR | 1 | |
| B04 | BUTTON SELECT | 3616603500 | ABS | 1 | DWD-FD1411 |
| | | 3616605320 | ABS + AL COATING | | DWD-FD1412 |
| B05 | WINDOW DISPLAY AS | 3615503020 | ABS-TR + STICKER | 1 | |
| B06 | PCB AS | PRPSSWFD14 | DWD-FD141 SERIES NON-EC HOT V/V BB | 1 | |
| B07 | HOLDER LED | 3613049600 | ABS | 1 | |
| B08 | CASE PCB | 3611143100 | HIPS | 1 | |
| B09 | HOLDER DIAL | 3613049700 | ABS | 1 | |
| B10 | SCREW TAPPING | 7122401611 | T2S TRS 4x16 MFZN | 4 | |
| B11 | KNOB DIAL AS | 3613405000 | ABS, AL COATING | 1 | |
| B12 | SCREW TAPPING | 7122401608 | T2S TRS 4x16 SUS | 2 | |
| B13 | SCREW TAPPING | 7122401211 | T2S TRS 4x12 MFZN | 2 | |

■ CABINET FRONT AS



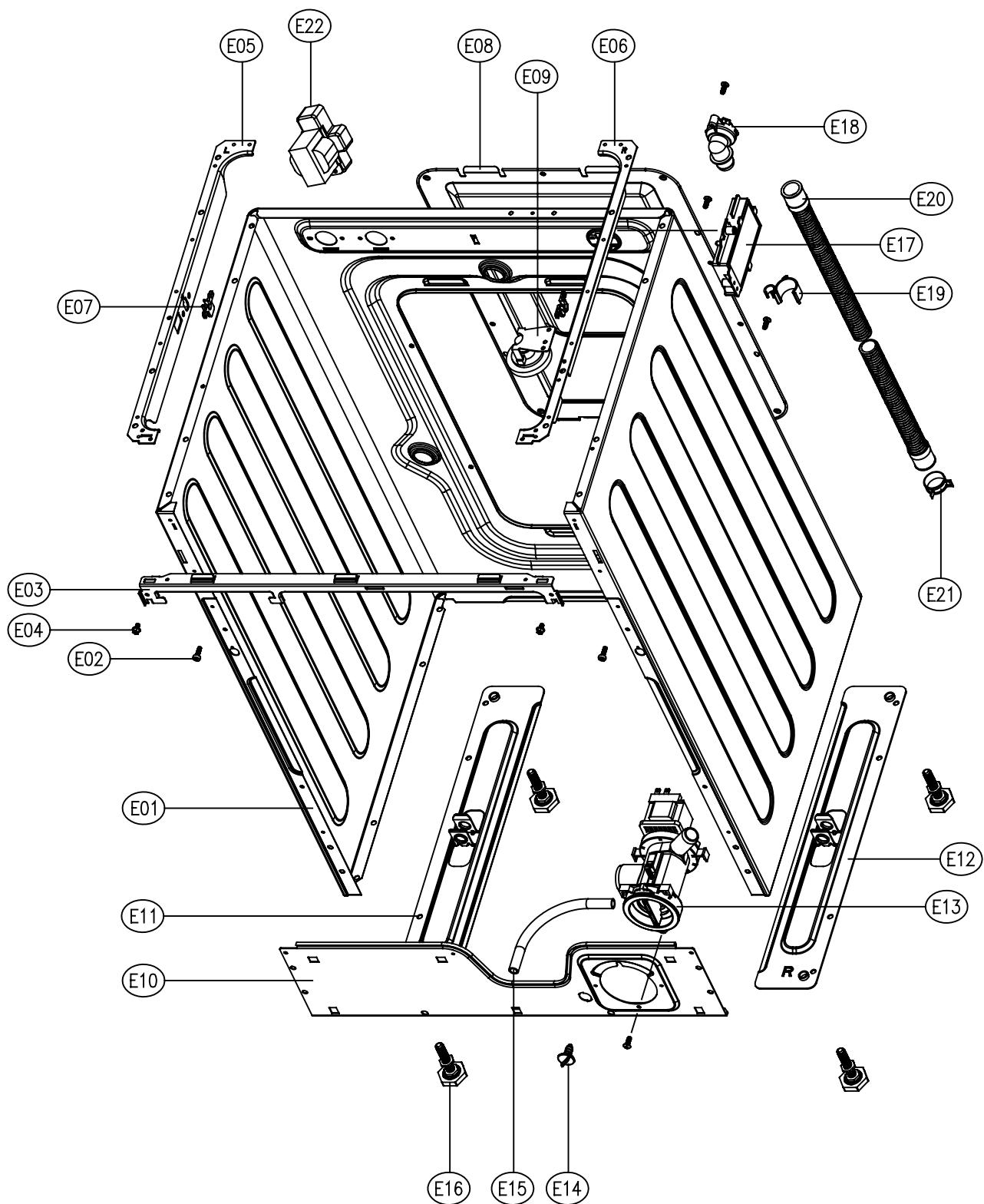
| No. | PART NAME | PART CODE | SPECIFICATION | Q'TY | REMARK |
|-----|---------------------|------------|-----------------------------------|------|------------|
| C01 | CABINET FRONT | 3610811220 | SECD 0.7T | 1 | |
| C02 | SWITCH DOOR LOCK | 3619047100 | DL-LC BITRON_3P 250V 16A BI-METAL | 1 | |
| C03 | SCREW TAPPING | 7122401208 | T2S TRS 4X12 SUS | 2 | |
| C04 | PLATE HINGE SUPPORT | 3614531900 | SGCC T1.6 | 1 | |
| C05 | HINGE DOOR | 3612902800 | ZNDC | 1 | |
| C06 | CAP HINGE DOOR | 3610916500 | POM | 2 | |
| C07 | SCREW TAPPING | 3616030000 | F/L BOLT(SE) 5*12 SUS | 2 | |
| C08 | SCREW TAPPING | 3616029950 | TTS"S" HEX F/L 4*8 | 6 | |
| C09 | CLAMP DOOR AS | 3611204800 | HSWR D=1.4 | 1 | |
| C10 | FRAME DOOR I | 3612205200 | PP | 1 | |
| C11 | HANDLE DOOR | 3612608600 | ABS | 1 | |
| C12 | PIN HANDLE | 3618200200 | SUS304, D3, L48 | 1 | |
| C13 | SPRING HOOK | 3615114600 | SUS D1.4 | 1 | |
| C14 | HOOK DOOR | 3613100700 | ZNDC | 1 | |
| C15 | DOOR GLASS | 361A110700 | GLASS PI300 | 1 | |
| C16 | FRAME DOOR O | 3612205100 | ABS | 1 | DWD-FD1411 |
| | | 3612205140 | CR6+ GILDING | | DWD-FD1412 |
| C17 | SCREW TAPPING | 7115402008 | T1S FLT 4*20 SUS | 6 | |

■ TUB ASS'Y



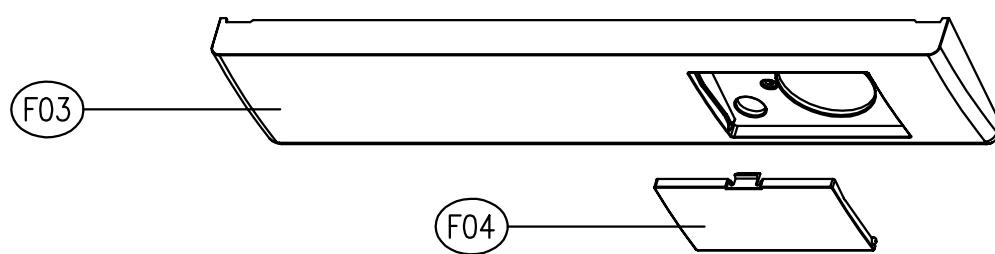
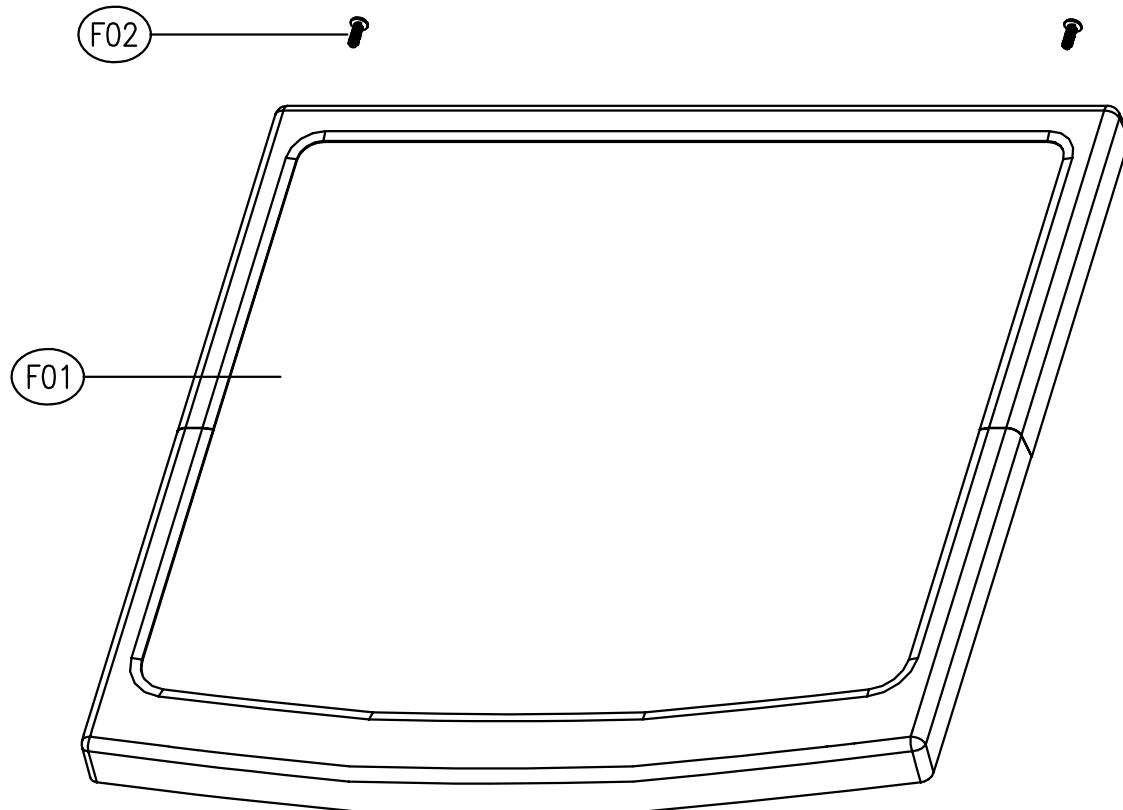
| No. | PART NAME | PART CODE | SPECIFICATION | Q'TY | REMARK |
|-----|-------------------------|------------|-----------------------------------|------|--------|
| D01 | BALANCER WEIGHT F L/R | 3616106320 | FRONT, 5.5kg | 2 | |
| D02 | SPECIAL SCREW(BALANCER) | 3616029400 | SWCH 8.5X30 | 8 | |
| D03 | GASKET | 3612321400 | EPDM | 1 | |
| D04 | CLAMP GASKET AS | 3611204500 | HSWR D=1.8 | 1 | |
| D05 | TUB FRONT | 3618821010 | FRPP FH7304GM | 1 | |
| D06 | SPECIAL SCREW(TUB) | 3616029800 | SWCH 6.5X30 | 14 | |
| D07 | FIXTURE HEATER | 3612007300 | SUS 0.7T 440°Ø45 | 1 | |
| D08 | DRUM SUB AS | 3617004001 | SUS 0.5T | 1 | |
| D09 | LIFTER WASH | 361A400400 | PP | 3 | OPTION |
| | | 361A400410 | NANO | | |
| D10 | SPIDER AS | 361A300500 | ALDC+SM45C | 1 | |
| D11 | SPECIAL SCREW(SPIDER) | 3616029500 | SUS430 8x25 | 3 | |
| D12 | HOSE DRAIN | 3613267300 | EPDM | 1 | |
| D13 | CLAMP AS | 3611203200 | ID=60, WIRE+GUIDE+BOLT+NUT | 1 | |
| D14 | CLAMP HOSE I | 3611201400 | HSW3, D2.6, MFZN, D=38 | 1 | |
| D15 | AIR TRAP | 361A500101 | PP | 1 | |
| D16 | CLAMP HOSE | 3611204700 | D27 | 1 | |
| D17 | HOSE AIR | 3613268600 | ID=4, OD=8, L=700 | 1 | |
| D18 | TUB REAR | 3618821110 | FRPP FH7304GM | 1 | |
| D19 | BEARING OUTER | 3616303200 | 6205Z FAG | 1 | |
| D20 | BEARING HOUSING | 3616303300 | ALDC | 1 | |
| D21 | BEARING INNER | 3616303100 | 6206Z FAG | 1 | |
| D22 | WATER SEAL | 361A600100 | NBR | 1 | |
| D23 | GASKET TUB | 3612321600 | EPDM L=1675 | 1 | |
| D24 | DAMPER FRICTION | 361A700120 | 120N, AKS, ST=170-160, DL=197.5 | 2 | |
| D25 | DAMPER PIN | 361A700200 | AKS, D=14.5 | 2 | |
| D26 | HOSE VENT | 3613267100 | EPDM | 1 | |
| D27 | CLAMP HOSE | 3611204700 | D27 | 1 | |
| D28 | UNIT STATOR BLDC | 36189L4820 | AL-16T 36SLOT 2SNESOR | 1 | |
| D29 | SPECIAL BOLT AS | 3616029920 | SWCH M8+SILOCK, 35MM | 6 | |
| D30 | UNIT ROTOR BLDC | 36189L4910 | MAGENT24 SERRATION | 1 | |
| D31 | SPECIAL BOLT AS | 3616029600 | SWCH M10xL30, F/L BOLT | 1 | |
| D32 | HEATER WASH | 3612802440 | 120V 1KW.1R0A721005.RW8TF1PE.IRCA | 1 | |
| D33 | UNIT BUBBLE PUMP | 36189L4G10 | 100-130 DBK-115DB RP-CUSH | 1 | OPTION |
| D34 | SPRING SUSPENSION | 3615115300 | D3.2, L164 | 2 | |

■ CABINET AS



| No. | PART NAME | PART CODE | SPECIFICATION | Q'TY | REMARK |
|-----|--------------------|------------|--------------------------------|------|--------|
| E01 | CABINET | 3610811100 | SGCC, T0.8, PAINTING | 1 | |
| E02 | SPECIAL SCREW | 3616029100 | M4x12.5, MACHINE | 2 | |
| E03 | FRAME UPPER | 3612205800 | SGCC T1.2 55X580 | 1 | |
| E04 | SCREW TAPPING | 3616029950 | TTS"S" HEX F/L 4X8 | 4 | |
| E05 | FRAME TOP-L | 3612205600 | SGCC T1.6 52x500 | 1 | |
| E06 | FRAME TOP-R | 3612205700 | SGCC T1.6 52x500 | 1 | |
| E07 | STOPPER SPRING | 3615202200 | POM | 2 | |
| E08 | COVER B | 3611427100 | PP | 1 | |
| E09 | SENSOR PRESSURE | 3614825300 | 5V DRUM DL-DW11 INLET 90 | 1 | |
| E10 | FRAME LOWER | 3612205500 | SGCC T1.2 160X580 | 1 | |
| E11 | BASE U-L | 3610392200 | SGCC T1.6 100x500 | 1 | |
| E12 | BASE U-R | 3610392300 | SGCC T1.6 100x500 | 1 | |
| E13 | UNIT DRAIN PUMP AS | 36189L5700 | '40W 120V/60HZ B20-3 DRUM 6KG. | 1 | MEX |
| | | 36189L4E10 | 220V/60Hz B20-5 DRUM | | |
| E14 | CAP WATER REMAIN | 3610916800 | PP | 1 | |
| E15 | HOSE WATER REMAIN | 3613267800 | EPDM, ID8.5, L200 | 1 | |
| E16 | LEG ADJUST AS | 3617703810 | MFZN M10x1.25 + BUTYLE | 4 | |
| E17 | FILTER LINE | 3611909320 | DWLF-K25 NON FUSE | 1 | |
| E18 | CUFF DRAIN HOSE | 3616802500 | PP | 1 | |
| E19 | GUIDE DRAIN HOSE | 3612510400 | PP | 1 | |
| E20 | HOSE DRAIN I AS | 3613268400 | L=870 | 1 | |
| E21 | CLAMP HOSE | 3611204700 | D27 | 1 | |
| E22 | REACTOR AS | 3615800100 | RT-046B | 1 | OPTION |

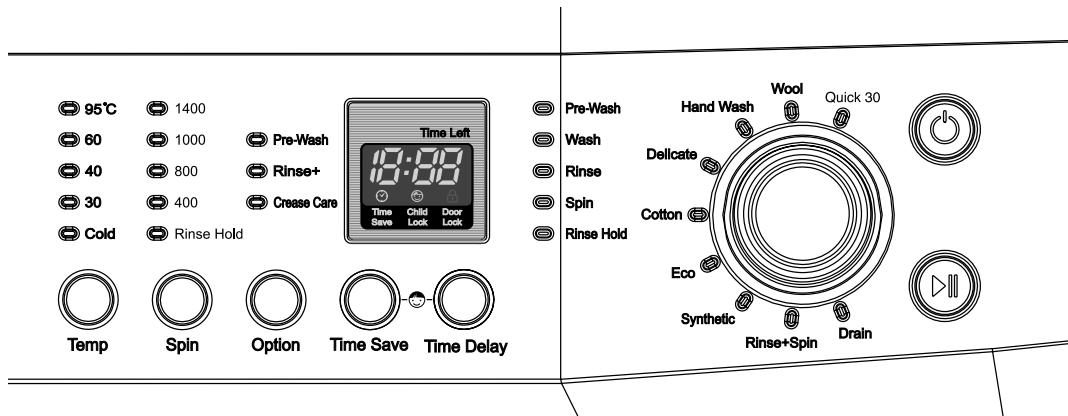
■ PLATE T AS + PANEL LOWER AS



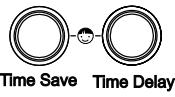
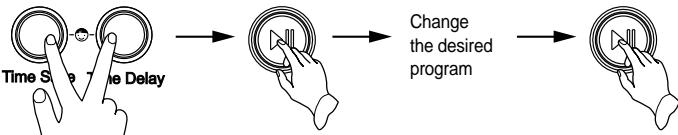
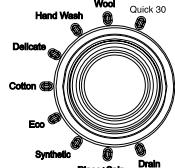
| No. | PART NAME | PART CODE | SPECIFICATION | Q'TY | REMARK |
|-----|-------------------|------------|-------------------|------|--------|
| F01 | PLATE T AS | 3614532900 | HIPS, MFC, WH | 1 | |
| F02 | SCREW TAPPING | 7122401411 | T2S TRS 4X14 MFZN | 2 | |
| F03 | PANEL LOWER | 3614282801 | HIPS | 1 | |
| F04 | COVER PUMP FILTER | 3611425801 | HIPS | 1 | |

6. FUNCTIONS OF THE CONTROL PANEL

■ DWD-FD1411/1412/1413/1414/1415



| | |
|--|---|
|  Power | Power Switch Press this button to turn the power ON or OFF. |
|  Start/Hold | Start/Hold This button is use to start wash cycle or stop temporarily. When you want to change program in operating, press this button. |
|  Temp | Temperature Button This button can be used to adjust temperature of water according to types of the load to be washed. |
|  Spin | Spin Speed Button By pressing this button, the spin speed can be chosen. No Spin If no spin is selected, the washer stops after draining water. Rinse Hold This function leaves clothes in the machine suspended in the water after a rinse without entering into spin. |
|  Option | Option Button By pressing this button, all option functions may be selected. Pre-Wash If the laundry is heavily soiled, Pre-Wash course is effective. Pre-Wash is available in Cotton and Synthetic. Rinse+ By selecting Rinse+ function, the rinse time and the rinse water are increased. Crease Care If you want to prevent crease, select this button with spin speed. |

| | |
|--|--|
|  Time Save | <p>Time Save Button</p> <p>By pressing this button, you can decrease pre-set washing time to 10 minutes. Time save is available in Cotton, Eco and Synthetic.</p> |
|  Time Delay | <p>Time Delay Button</p> <p>If you want to reserve the finishing time of washing, use this button.</p> <p>If the Time Delay button is pressed, "2:00" is displayed. The maximum delayed time is 12:00 hours and the minimum time is 2:00 hours.</p> <p>Each pressing of the button advances on time delay by one hour.</p> |
|  Time Save Time Delay | <p>Child Lock Button</p> <p>If you want to protect any accident occurring from handling of washer by a child, use this function.</p> <p>Child Lock can be set by pressing "Time Save" and "Time Delay" buttons simultaneously.</p> <p><i>*When Child Lock is set, no button functions except Power button.</i></p> <p>To cancel Child Lock, press "Time Save" and "Time Delay" buttons simultaneously again.</p> <p>To change to the desired program, while in child lock mode.</p> <ol style="list-style-type: none"> 1. Press both "Time Save" and "Time Delay" buttons together once again. 2. Press the Start/Hold button. 3. Select the desired program and press the Start/Hold button again.  |
|  | <p>Program Dial</p> <p>When Start/Hold button is pressed, the Cotton program is automatically selected.</p> <p>By turning the Program Dial, the program is selected in order of "Cotton↔Delicate↔Hand Wash↔Wool↔Quick 30↔Drain↔Rinse+Spin↔Synthetic↔Eco"</p> |

7. FUNCTIONS OF THE CONTROLLER

■ SEQUENCE CHART

| Division | Progress Time | Cotton | | Synthetic | | Eco | |
|-----------------------|------------------|--|-------|-----------|------|------|------|
| | | S | L | S | L | S | L |
| PRE WASH | Sensing | 20sec. | | | | | |
| | Water Supply | 2min. | | | | | |
| | | 10min. | | | | | |
| | Pre Wash | | 8min. | | | | |
| | Drain | | 1min. | | | | |
| | B-Spin | | 1min. | | | | |
| MAIN WASH | Middle Spin | | 3min. | | | | |
| | Sensing | 20sec. | | ■ | ■ | ■ | ■ |
| | Water Supply | 2min. | ■ | ■ | ■ | ■ | ■ |
| | | 70min. | | | | | |
| | Wash 1 (Heating) | 60min. | ■ | | | | |
| | | 35min. | ■ | | | | |
| | | 30min. | ■ | | | | |
| | | 20min. | ■ | | | | |
| | | 15min. | ■ | | | | |
| | | 10min. | ■ | | | | |
| RINSE | Wash 2 | 83min. | ■ | | | | |
| | | 63min. | ■ | | | | |
| | | 23min. | ■ | ■ | ■ | ■ | ■ |
| | Drain | 1min. | ■ | ■ | ■ | ■ | ■ |
| | B-Spin | 1min. | ■ | ■ | ■ | ■ | ■ |
| | Middle Spin | 4min. | ■ | ■ | ■ | ■ | ■ |
| | Water Supply | 2min. | ■ | ■ | ■ | ■ | ■ |
| | Rinse 1 | 3min. | ■ | ■ | ■ | ■ | ■ |
| | Drain | 1min. | ■ | ■ | ■ | ■ | ■ |
| | B-Spin | 1min. | ■ | ■ | ■ | ■ | ■ |
| SPIN | Middle Spin | 4min. | ■ | ■ | ■ | ■ | ■ |
| | Water Supply | 2min. | ■ | ■ | ■ | ■ | ■ |
| | Rinse 2 | 3min. | ■ | ■ | ■ | ■ | ■ |
| | Drain | 1min. | ■ | ■ | ■ | ■ | ■ |
| | B-Spin | 1min. | ■ | ■ | ■ | ■ | ■ |
| END | Middle Spin | 4min. | ■ | ■ | ■ | ■ | ■ |
| | Water Supply | 2min. | ■ | ■ | ■ | ■ | ■ |
| | Rinse 3 | 3min. | ■ | ■ | ■ | ■ | ■ |
| | Drain | 1min. | ■ | ■ | ■ | ■ | ■ |
| Remained Time Display | | 1:25 | 1:30 | 1:25 | 1:30 | 1:40 | 1:45 |
| NOTE | | • The washing time may vary by the amount of laundry, water pressure, water temperature and other washing conditions. If an unbalanced load is detected or if suds removing program operates, the washing time maybe extended. (Maximum increasing time is about 1hour.) | | | | | |

| Division | | Progress Time | Wool | Delicate | Hand Wash | Quick 30 | Rinse+Spin |
|-------------------------------------|---------------------|--|------|----------|-----------|----------|------------|
| | | | S | S | S | S | S |
| P R E W A S H | Soak | 30min. | | | | | |
| | Water Supply | 2min. | ■ | ■ | ■ | | |
| | | 1min. | | | | ■ | |
| | Wash 1 (Heating) | 15min. | | | | | |
| | | 10min. | | | | | |
| | | 5min. | | | | ■ | |
| | Wash 2 | 20min. | ■ | ■ | | | |
| | | 10min. | ■ | ■ | ■ | | |
| | | 5min. | ■ | ■ | ■ | ■ | |
| R I N S E | Drain | 1min. | ■ | ■ | ■ | ■ | ■ |
| | B-Spin | 1min. | ■ | ■ | ■ | | ■ |
| | Middle Spin | 4min. | ■ | ■ | ■ | | ■ |
| | Water Supply | 2min. | ■ | ■ | ■ | | ■ |
| | | 1min. | | | | ■ | |
| | Rinse 1 | 3min. | ■ | ■ | ■ | ■ | ■ |
| | Drain | 1min. | ■ | ■ | ■ | ■ | |
| | B-Spin | 1min. | ■ | ■ | ■ | | |
| | Middle Spin | 4min. | ■ | ■ | ■ | | |
| | Water Supply | 2min. | ■ | ■ | ■ | | |
| | | 1min. | | | | ■ | |
| | Rinse 2 | 3min. | ■ | ■ | ■ | ■ | |
| | Drain | 1min. | | | ■ | | |
| | B-Spin | 1min. | | | ■ | | |
| | Middle Spin | 4min. | | | ■ | | |
| | Water Supply | 2min. | | | ■ | | |
| | | 1min. | | | | | |
| S P I N | Rinse 3 | 3min. | | | ■ | | |
| | Drain | 1min. | ■ | ■ | ■ | ■ | ■ |
| END | B-Spin | 1min. | ■ | ■ | ■ | ■ | ■ |
| | Main Spin | 8min. | ■ | ■ | ■ | ■ | ■ |
| END | Untangle | 2min. | ■ | ■ | ■ | ■ | ■ |
| | End | 10sec. | ■ | ■ | ■ | ■ | ■ |
| Remained Time Display | | | 56 | 56 | 57 | 33 | 23 |
| NOTE | | <ul style="list-style-type: none"> The washing time may vary by the amount of laundry, water pressure, water temperature and other washing conditions. If an unbalanced load is detected or if suds removing program operates, the washing time maybe extended. (Maximum increasing time is about 1hour.) | | | | | |

8. FUNCTION OF THE CONVENIENT SERVICE

■ The test mode of the load movement

You can check the PCB ASS'Y and the condition of each load movement simply.

• The method to enter

- ① Press the Power switch button.
- ② Press the Option button 3 times while press the Temp button.

At this time, the version is displayed on the Custom LED

- ③ Each load makes a movement as follows, whenever the Time Delay button is pressed a time.

1200(RPM) → C:H (Cold/Hot option)
→ L C (Lock Close) → H (Hot valve)
→ C (Cold valve) → P (Pre-Wash valve) → bb (bubble)
→ dr (drain pump) → L O (Lock switch Open)

■ The check mode of the water level frequency

You can check the beginning frequency and the frequency by the variation of the water level.

• The method to enter and operate

- ① Press the Power switch button.
- ② Press the Time Delay button 3 times while press the Temp button and the Spin button.
- ③ the beginning display on "18:88 LED" is the current frequency of the water level.

ex) **5 6 2** = 25.62kHz

: It display three number except the first number of 25.62kHz

- ④ When you press the Temp button a time → Cold valve On

2 times → Cold valve Off

3 times → Drain pump On

9. TROUBLESHOOTING GUIDE

This washing machine is equipped with automatic safety function which detect and diagnose faults at an early stage and react appropriately.

When the machine does not function properly or does not function at all, check the following points.

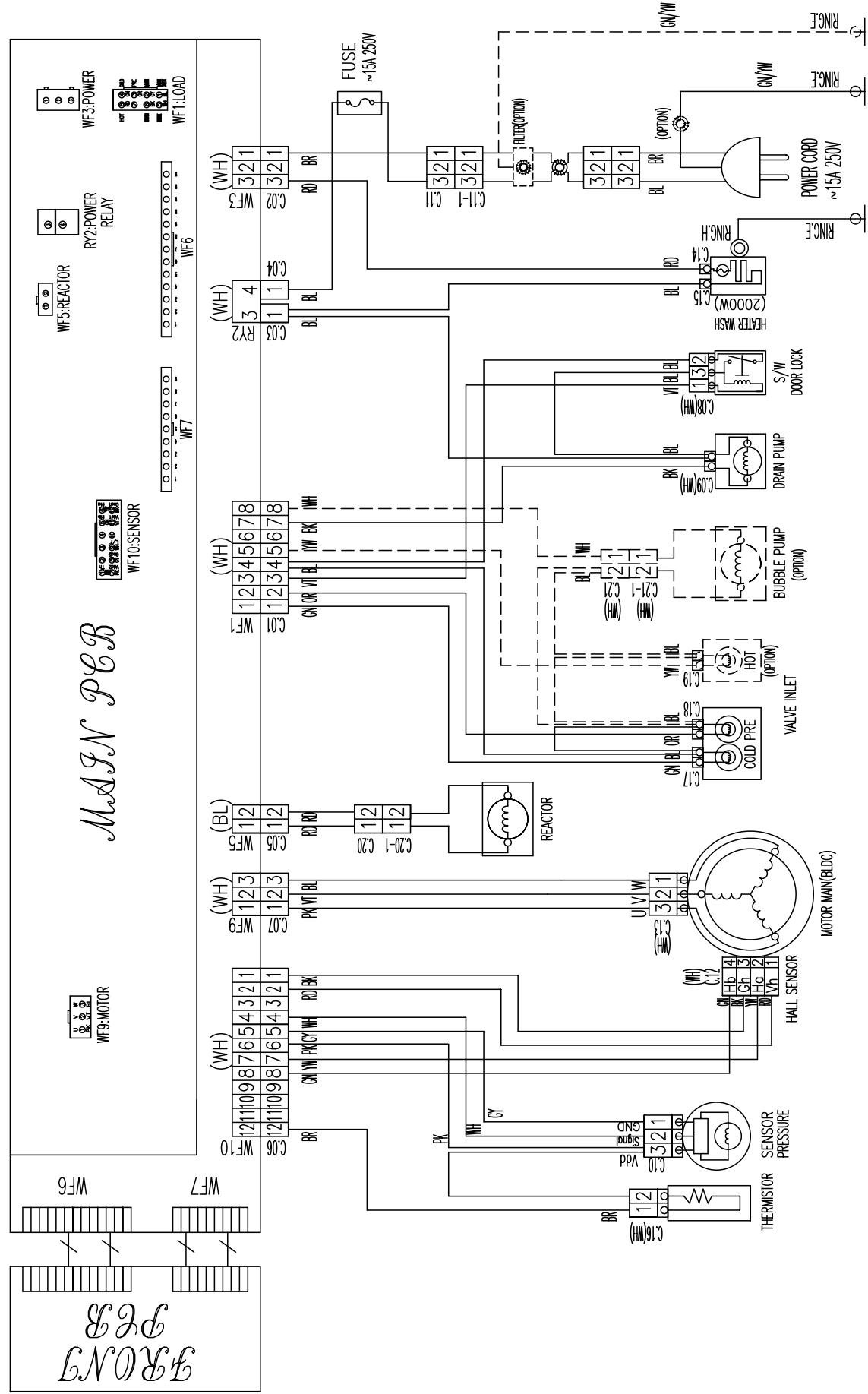
| SYMPTOM | CAUSE | SOLUTION |
|--|---|---|
| Rattling and clanking noise | Foreign objects such as coins or safety pins maybe in the drum or pump | Stop washer and check drum and filter. |
| Thumping sound | Heavy wash loads may produce a thumping sound. This is usually normal. | If sound continues, washer is probably out of balance. Stop and redistribute wash load. |
| Vibrating noise | Have all the transit bolts and packing been removed? | If not removees during installation. Refer to Installation guide for removing transit bolts. |
| | Are all the feet resting firmly on the ground? | Wash load may be unevenly distributed in drum. Stop washer and rearrange wash load. |
| Water leaks. | Inlet hoses or drain hose are loose at tap or washer. | Check and tighten hose connections. |
| | House drain pipes are clogged. | Unclog drain pipe. Contact plumber if necessary. |
| Oversudsing | | Too much detergent or unsuitable detergent may cause excessive foaming which may result in water leaks. |
| Water does not enter washer or it enters slowly. | Water supply is not adequate in area. | Check another tap in the inlet house. |
| | Water supply tap is not completely open. | Fully open tap. |
| | Water inlet hose is kinked. | Straighten hose. |
| | The filer of the water inlet is clogged. | Check the filter of the water inlet. |
| Water in the washer does not drain or drains slowly. | Drain hose is kinked or clogged. | Clean and straighten drain hose. |
| | The drain filter is clogged. | Clean the drain filter. |

| SYMPTOM | CAUSE | SOLUTION |
|--|--|---|
| Washer does not start. | Electronical power cord may not be plugged in or connection may be loose. | Make sure plug fits tightly in wall outlet. |
| | House fuse blown, circuit breaker tripped, or a power outage has occurred. | Reset circuit breaker or replace fuse. Do not increase fuse capacity. If problem is a circuit overload, have it corrected by a qualified electrician. |
| | Water supply tap is not turned on. | Turn on water supply tap. |
| Washer will not spin. | Check that the door is firmly shut. | Close the door and press the Start/Pause button. After pressing the Start/Pause button, it may take a few moments before the clothes washer begins to spin. The door must lock before spin can be achieved." |
| Door does not open. | | Once started, the door can not be opened for safety reasons. Wait two minutes before opening the door to give the electric locking mechanism time to release. |
| Wash cycle time delayed | | The washing time may vary by the amount of laundry, water pressure, water temperature and other usage conditions. If the imbalance is detected, the wash time shall be increased. |
| The washer will stop during spinning . Spinning is insufficient. | PFE error due to much detergent and unsuitable detergent | If PFE error mode was displayed on the control part, in order to solve this problem, first turn off the power of the washing machine, second turn on the power pressing Power button, third press SPIN button and last press Start/Hold button. |

| MESSAGE | ERROR | CAUSE | SOLUTION |
|---------|----------------------------|---|--|
| IE | WATER INLET ERROR | The water tap is closed. | Open the water tap. |
| | | The filter of the valve inlet is clogged. | Clean the filter of the valve inlet. |
| | | The valve inlet is an inferior product or broke down. | Change the valve inlet. |
| | | The water level sensor (sensor pressure) is an inferior product or broke down. | Change the water level sensor (sensor pressure). |
| | | The drain motor works during water supply. | Change the drain motor. |
| | | The PCB ASS'Y does not check the water level. | Change the PCB ASS'Y. |
| OE | DRAIN ERROR | The drain hose is kinked or clogged. | Clean and straighten the drain hose. |
| | | The drain motor is an inferior product. | Change the drain motor. |
| | | The valve inlet works during drain. | Change the valve inlet |
| | | The water level sensor is an inferior product. | Change the water level sensor. |
| | | The PCB ASS'Y does not check the water level. | Change the PCB ASS'Y. |
| | | The RPM of drum did not reach the setting RPM within the setting time during the spin. | Clean the drain pump filter. Or restart spin only course. |
| UE | UNBALANCE ERROR | The laundry is concentrated to one side of the drum during spin. | Rearrange the laundry. |
| LE | DOOR OPEN ERROR | The Start/Hold button is pressed while the door is opened. | Close the door. |
| | | The switch door lock is an inferior product. | Change the switch door lock. |
| | | The PCB ASS'Y does not check the door lock. | Change the PCB ASS'Y. |
| E2 | OVERFLOW ERROR | The water is supplied continuously due to an inferior valve inlet. | Change the valve inlet. |
| | | The valve inlet is normal, but the water level sensor (sensor pressure) is inferior. | Change the water level sensor (sensor pressure). |
| | | The drain motor dose not work. (The drain motor is an inferior product or broke down.) | Change the drain motor. |
| E4 | LEAKAGE ERROR | Water leaks from the tub or the hose drain. | Check the leak of the tub or the hose drain. Then change the tub or the hose drain. |
| E5 | HIGH VOLTAGE ERROR | The laundry is jammed between the gasket and the drum. | Rearrange the laundry. |
| | | The PCB ASS'Y is an inferior product. | Change the PCB ASS'Y. |
| E6 | EMG ERROR | The laundry is jammed between the gasket and the drum. | Rearrange the laundry. |
| | | The motor is an inferior product. | Change the motor. |
| | | The PCB ASS'Y is an inferior product. | Change the PCB ASS'Y. |
| E7 | DIRECTION ERROR | The motor spins into an opposite direction. | Change the PCB ASS or the motor. |
| | | The motor hall IC is an inferior product or broke down. | Change the motor hall IC or the motor. |
| E8 | MOTOR ERROR | The motor is not normally connected. | Check the connector of the motor. |
| | | The motor does not work. (The motor is an inferior product or broke down.) | Change the motor. |
| E9 | SENSOR PRES- SURE ERROR | The water level sensor is an inferior product. | Change the water level sensor. |
| H2 | THERMISTOR WASH ERROR | The thermistor wash is an inferior product or broke down. | Change the thermistor wash. |
| | | The thermistor wash is not connected normally. | Check the connector of the thermistor wash. |

| MESSAGE | ERROR | CAUSE | SOLUTION |
|---------|--|--|--|
| H4 | THERMISTOR WASH OVERHEATING ERROR | The heater worked without the water in the tub. | Check the water level. |
| | | The thermistor wash is an inferior product or broke down. | Change the thermistor wash. |
| H5 | WATER TEMP. ERROR | The water temp. is over 45°C in delicate & wool course. (The thermistor wash is an inferior product or broke down.) | Change the thermistor wash. |
| H6 | HEATER WASH ERROR | The heater wash dose not work. (The water temp. doesn't rise over 2°C during 15min.) | Change the heater wash. |
| H8 | HEATER WASH OVERHEATING ERROR | The heater worked without the water in the tub. | Check the water level and the heater wash. |
| PFE | PUMP FILTER ERROR | The drain pump filter is clogged. | Clean the drain pump filter. |
| | | The drain pump does not work during spin. | Change the drain pump. |
| | | The large amount of detergent was used. | Use the proper amount of detergent. |
| | | The drain hose is placed higher than 1m above the floor. | Place the drain hose 1m below the floor |

10. WIRING DIAGRAM



DAEWOO

DAEWOO ELECTRONICS CORP.

686, AHYEON-DONG MAPO-GU SEOUL, KOREA

C.P.O. BOX 8003 SEOUL, KOREA

TELEX: DWELEC K28177-8

CABLE: "DAEWOOLEC"

S/M No. :